

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applicant:

PECKER Iris et al

Serial No.: 10/676,079

Filed: October 2, 2003

For: HEPARANASE SPECIFIC MOLECULAR
PROBES AND THEIR USE IN RESEARCH
AND MEDICAL APPLICATIONS

Examiner: DIBRINO, MARIANNE NMN



Group Art Unit: 1644

§§§
Attorney
Docket: 26871

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INFORMATION DISCLOSURE STATEMENT

Sir:

Attached please find copies of IDS PTO Form 1449 submissions made in the above identified applications. It is requested that they be made of record in the instant application.

Applicant requests that MPEP 609 be complied with and the examiner consider information which has been considered by the Office in a parent application when examining (A) a continuation application, (B) a divisional application, or (C) a continuation-in-part application.

This is a divisional of U.S. Patent Application No. 09/704,772, filed November 3, 2000, which is a divisional of U.S. Patent Application No. 09/322,977, filed June 1, 1999, now U.S. Patent No. 6,531,129, issued March 11, 2003, which is a divisional of U.S. Pat. application No. 09/071,739, filed May 1, 1998, now U.S. Patent No. 6,177,545, issued January 23, 2001, which is a continuation-in-part of U.S. Pat. application No. 08/922,170, filed September 2, 1997, now U.S. Patent No. 5,968,822, issued October 19, 1999.

This Information Disclosure Statement is being filed subsequent to an Office Action being mailed and a late fee of \$180 is due. Please charge my Deposit Account 50-1407 for this fee, as well as any additional fees due.

This Information Disclosure Statement under 37 CFR 1.56 is not to be construed as a representation that a search has been made, that additional matter which is material to the examination of this application does not exist, or that any or more of these citations constitutes prior art.

Respectfully submitted,



Martin D. Moynihan

Registration No. 40,338

Dated: June 11, 2006



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PTO/SB/08a (08-03)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of	19	Attorney Docket Number	29714
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
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Examiner Signature				Date Considered		

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Complete if Known

Application Number	11/154,805
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First Named Inventor	Oron JACOBY-ZEEVI
Group Art Unit	1636
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Sheet	3	Of	19	Attorney Docket Number	29714
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Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/785,116
		Filing Date	February 25, 2004
		First Named Inventor	PECKER Iris et al
		Art Unit	1652
		Examiner Name	
Sheet	of	Attorney Docket Number	
27674			

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Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
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Application Number	10/785,116
Filing Date	February 25, 2004
First Named Inventor	PECKER Iris et al
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
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38	PCT WO 99/57244		11-11-1999	Ben-Artzi et al.		

40	PCT WO 99/11798	03-11-1999	Pecker et al.	
41	PCT WO 88/01280	01-1-1988	Nicolson et al.	
42	PCT WO 95/04158	09-9-1995	Hoogewerf et al.	
43	PCT WO 99/21975	06-6-1999	Freeman et al.	
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51	PCT WO 00/52178	08-8-2000	Pecker et al.	

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Sheet 1 of 11

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Application Number	10/722,502
Filing Date	August 22, 2003
First Named Inventor	YACOBY-ZEEVI Oron et al
Art Unit	1644
Examiner Name	

Attorney Docket Number 26872

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² of Document			
1	US-5,362,641	08-8-1994		Fuks et al.	
2	US-5,399,351	01-1-1995		Leshchiner et al	
3	US-5,550,116	01-1-1996		Lormeau et al.	
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Sheet 2 of 11 Attorney Docket Number 26872

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Examiner Initials*	Cite No. ¹	Foreign Patent Documents	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	38	PCT WO 99/57244	11-11-1999	Ben-Artzi et al.		
	39	PCT WO 99/57153	11-11-1999	Pecker et al.		
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	41	PCT WO 88/01280	01-1-1988	Nicolson et al.		
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	50	PCT WO 00/52149	08-8-2000	Yacobi-Zeevi		
	51	PCT WO 00/52178	08-8-2000	Pecker et al.		

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Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	52	"Mouse Models for Reproductive Biology Research" - www.jax.org/jaxmice : 1-2, Summer 2002.	
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Examiner Signature		Date Considered	

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	599	Anatolii "Hyaluronic Capsule as one of the Factors of Hemolytic Streptococcus Pathogenicity", Chem. Abstracts 86(17): 339. Abstr. 118714 citing Zh. Mikrobiol. Epidemiol. Immunobiol. 2: 22-27, 1977.			
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INFORMATION DISCLOSURE
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Application Number	10/712,502
Filing Date	August 22, 2003
First Named Inventor	YACOBY-ZEEVI Oron et al
Art Unit	1644
Examiner Name	

Sheet	4	of	11	Attorney Docket Number	2687
	76	Brenner "Errors in Genome Annotation". Trends in Genetics. 15(4): 132-133, 1999.			
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Application Number	10/72,502
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Sheet	5	of	11	Attorney Docket Number	26872
	94	Ejima et al. "Induction of Apoptosis in Placentas of Pregnant Mice Exposed to Lipopolysaccharides: Possible Involvement of Fas/Fas Ligand System", Biology of Reproduction 62: 178-185, 2000. Abstract.			
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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Application Number	10/722,502
Filing Date	August 22, 2003
First Named Inventor	YACOBY-ZEEVI Oron et al
Art Unit	1644
Examiner Name	

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Sheet	8	of	11	Complete if Known	
				Application Number	10/722,502
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Sheet	9	of	11	Attorney Docket Number	268 2
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Application Number	10/7 2,502
Filing Date	August 22, 2003
First Named Inventor	YACOBY-ZEEVI Oron et al
Art Unit	1644
Examiner Name	

Sheet	10	of	11	Attorney Docket Number	2687
	185	Sasisekharan et al. "Heparinase Inhibits Neovascularization", Proc. Natl. Acad. Sci., 91:1524-1528, 1994.			
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Substitute for form 1449A/PTO				Application Number	1072502
				Filing Date	Aug 22, 2003
Sheet	11	of	11	First Named Inventor	YAC OBY-ZEEV! Oron et al
	204	Vogel et al. "Production of Proteoglycan by Human Lung Fibroblasts (IMR-90) maintained in a Low Concentration of Serum", Biochem J. 207(3): 369-379. Abstract.			Art Unit
	205	Vukicevic et al. "Induction of Nephrogenic Mesenchyme by Osteogenic Protein 1 (Bone Morphogenetic Protein 7)", Proc. Natl. Acad. Sci., 93: 9021-9026, 1996.			Examiner Name
	206	Walch et al. "Correlation of Overexpression of the Low-Affinity p75 Neuropathic Receptor with Augmented Invasion and Heparanase Production in Human Malignant Melanoma Cells", Int. J. Cancer 82: 112-120, 1999.			
	207	Walton et al. "Prediction of Antisense Oligonucleotide Binding Affinity to a Structured RNA Target", Biotechnology and Bioengineering, 65(1): 1-9, 1999.			
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Sheet	I	Of	I	Application Number	10/645,659
				Filing Date	08/22/2003
				First Named Inventor	YACOBY-ZEEVI
				Group Art Unit	1635
				Examiner Name	
				Attorney Docket Number	26128
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			
		Fairbanks et al. "Processing of the Human Heparanase Precursor and Evidence that the Active Enzyme is a Heterodimer", <i>J. Biol. Chem.</i> , vol. 274, No. 42, pp. 29517-29590, 15 Oct. 1999.			
		Hulett et al. "Cloning of Mammalian Heparanase, an Important Enzyme in Tumor Invasion and Metastasis", <i>Nature Medicine</i> , 5(7):803-809, 1999			
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Examiner Signature				Date Considered	

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Sheet 1 Of 2 Attorney Docket Number 25677

FOREIGN PATENT DOCUMENTS

Examiners Initials	Cite No. ¹	Foreign Patent Documents			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, columns, lines. Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
		WO	03/006645		IMCLONE SYSTEMS INC.	01-23-2003		
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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Complete if Known	
Application Number	10/456,573
Filing Date	06/09/2003
First Named Inventor	Iris PECKER
Group Art Unit	1646
Examiner Name	

Sheet 2 Of 2 Attorney Docket Number 25677

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
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		Parish et al, "Evidence that sulphated poly-accharides inhibit tumour metastasis by blocking tumour-cell-derived heparanases". <i>Int J Cancer</i> . 1987 Oct 15;40(4):511-8.	
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Examiner Signature		Date Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known

Application Number	10/371,218
Filing Date	02/24/2003
First Named Inventor	Zcharia
Group Art Unit	1652
Examiner Name	

Sheet 1 Of 2 Attorney Docket Number 25783

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
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Examiner Signature		Date Considered

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5,362,641

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	WO	95/04158		Hoogwerf et al	02-09-1995			
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Application Number	10/341,582
Filing Date	01/14/2003
First Named Inventor	Ilan et al
Group Art Unit	1652
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Sheet	2	Of	4	Attorney Docket Number	25449
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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		Richardson et al, "Regulation of Basic Fibroblast Growth factor Binding and Activity by Cell Density and Heparan Sulfate", <i>J. Biological Chemistry</i> , 274(19):13534-13540	
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		Fairbanks et al, "Processing of the Human Heparanase Precursor and Evidence that the Active Enzyme is a Heterodimer", <i>J. Biol. Chem.</i> , 274(42):29587-29590, 1999	
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Sasisekharan et al

Examiner Signature	<i>[Signature]</i>	Searcher of Heparanase I gave from <i>[Signature]</i>	Date <i>10/11/93</i>
		... heparinase I Proc. Natl. Acad. USA	Considered <i>10/10/93</i>

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	10/341,582
Filing Date	01/14/2003
First Named Inventor	Ilan et al
Group Art Unit	1652
Examiner Name	

Sheet	3	Of	4	Attorney Docket Number
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.		
		T ²		
		Kussie et al, "Cloning and Functional Expression of a Human Heparanase Gene", <i>Biochem. And Biophysical Res. Comm.</i> , 261:183-187, 1999		
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		Gewirtz et al, "Nucleic Acid Therapeutics: State of the Art and Future Prospects", <i>Blood</i> , 92(3):712-736, 1998		
		Hida et al, "Antisense E1AF Transfection Restrains Oral Cancer Invasion by Reducing Matrix Metalloproteinase Activities", <i>Am J Pathol</i> , 50(6):2125-2132, 1997 (abstract only)		
		Shastry, BS, "Gene Disruption in Mice: Models of Development and Disease", <i>Molecular and Cellular Biochemistry</i> , 181:163-179, 1998		
Examiner Signature				Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known

Application Number 10/341,582

Filing Date 01/14/2003

First Named Inventor Ilan et al

Group Art Unit 1652

Examiner Name

Sheet	4	Of	4	Attorney Docket Number	25449	
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²
		Carpentier et al, "DNA Vaccination with HuD Inhibits Growth of a Neuroblastoma in Mice", <i>Clinical Cancer Research</i> , 4:2819-2824, 1998				
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Sheet 2 of 6

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Application Number	10/163,993
Filing Date	June 7, 2002
First Named Inventor	Yacobi-Zeevi
Group Art Unit	1652
Examiner Name	

Attorney Docket Number 02/23884

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s) publisher, city and/or country where published.
	AD	"The Merck Manual", R. Berkow, M.D. Ed-in-Chief, Merck Research Laboratories. 1997, pp 201, 204, 1308, 177-179, 1016-1017, 194-197, 885, 601.
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Filing Date	June 7, 2002
First Named Inventor	Yacobi-Zeevi
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	AQ	Weller, Peter H., "Implications of Early Inflammation and Infection in Cystic Fibrosis: A Review of New and Potential Interventions", <i>Pediatric Pulmonology</i> , 24:143-146, 1997
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	BD	Beuth et al, "Lectin-Mediated Bacterial Adhesion To Human Tissue", <i>Eur J Clin Microbiol</i> , 1987 Oct;6(5):591-3. (Abstract)
	BE	Allison et al, "Polysaccharide Production in <i>Pseudomonas Cepacia</i> ", <i>J Basic Microbiol</i> , 1994; 34(1):3-10 (Abstract)
	BF	Albus et al, "Staphylococcus Aureus Capsular Types And Antibody Response To Lung Infection In Patients With Cystic Fibrosis", <i>J Clin Microbiol</i> , 1988 Dec; 26(12):2505-9. (Abstract)
	BG	Maccone et al, "Mucoid <i>Escherichia Coli</i> In Cystic Fibrosis", <i>N Engl J Med</i> , 1981 Jun 11;304(24):1445-9. (Abstract)
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	BP	Maccone et al, "Mucoid <i>Escherichia Coli</i> in Cystic Fibrosis", <i>New England J Medicine</i> , 304(24):14445-1449
	BQ	Ofek et al, "Bacterial Adhesion to Cells and Tissue", Chapman & Hall, N.Y., Pub. 1994, pp 114-118, 148-153, 418-418, 420-423

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	BR	Reddi, A. Hari, "Role of Morphogenetic Proteins in Skeletal Tissue Engineering and Regeneration", <i>Nature Biotechnology</i> , Vol. 16, March 1998, pp. 247 - 252		
	BS	L.A. Dempsey et al., "Heparanase, A Potential Regulator of Cell-Matrix Interactions", <i>Trends in Biochem Sci</i> , 25:3:9-351, 2000		
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	CA	F. Blanquaert et al., "CMDBS, functional analogs of sulfate heparanes, used as osseous cicatrizing agents", <i>Ann. Endocrinol (Paris)</i> 1994 55:2 pp. 121 - 123 (Abstract)		
	CB	F. Blanquaert et al., "Heparan-like molecules induce the repair of skull defects", <i>Bone</i> 1995, December 17:6 pp. 499 - 506 (Abstract)		
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Application Number	10/163,993												
Filing Date	June 7, 2002												
First Named Inventor	Yacoby-Zeevi												
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Attorney Docket Number 02/23665

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Application Number	10/137,351
Filing Date	May 3, 2002
First Named Inventor	Ayal-Hershkovitz et al
Group Art Unit	1652
Examiner Name	
Attorney Docket Number	02/2366.5

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U.S. PATENT DOCUMENTS

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Application Number	09/988,113
Filing Date	March 1, 1999
First Named Inventor	Pecker et al
Group Art Unit	1652
Examiner Name	Hutson, Richard G.
Attorney Docket Number	01/22781

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		Ernst et al, "Enzymatic Degradation of Glycosaminoglycans", <i>Critical Rev. in Biochemistry and Mol. Biology</i> , 30(5):387-444, 1995			
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Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
		Walch et al, Correlation of Overexpression of the Low-Affinity p75 Neurotrophin Receptor with Augmented Invasion and Heparanase Production in Human Malignant Melanoma Cells", <i>Int. J. Cancer</i> , 82:112-120, 1999			
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Sheet 1 Of 4

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Application Number	09/978,297
Filing Date	10/17/2001
First Named Inventor	Yacobi-Zeevi
Group Art Unit	1633
Examiner Name	

Attorney Docket Number 01/22716

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Application Number	09/978,297
Filing Date	10/17/2001
First Named Inventor	Yacobi-Zeevi
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Examiner Name	

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹		T ²
	BA	"The Merck Manual", R. Berkow, M.D. Ed-ii.-Chief, Merck Research Laboratories, 1997, pp 201, 204, 1308, 177-179, 1016-1017, 194-197, 885, 601.	
	BB	Konstan et al, "Patterns of Medical Practice in Cystic Fibrosis: Part III. Use of Therapies", <i>Pediatr Pulmonol</i> , 1999, Oct; 28(4):248-54 (Abstract)	
	BC	Frederiksen et al, "Antibiotic Treatment of Initial Colonization with <i>Pseudomonas Aeruginosa</i> Postpones Chronic Infection and Prevents Deterioration of Pulmonary Function in Cystic Fibrosis", <i>Pediatr Pulmonol</i> , 1997 May; 23(5):330-335 (Abstract)	
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	BL	Murray et al, "The Extracellular Matrix", found in Harper's Biochemistry, 24 th Ed., McGraw-Hill Professional 1998, Chap. 57, p 667-679	
	BM	Selvan et al, "Heparan Sulfate in Immune Responses", <i>Annals New York Academy of Sciences</i> , 797:127-139, 1996	
	BN	Weller, Peter H., "Implications of Early Inflammation and Infection in Cystic Fibrosis: A Review of New and Potential Interventions", <i>Pediatric Pulmonology</i> , 24:143-146, 1997	
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			Filing Date	10/17/2001
			First Named Inventor	Yacobi-Zeevi
			Group Art Unit	1633
			Examiner Name	
Sheet	3	Of	4	Attorney Docket Number
				01/22716
	CA	Konstan, Michael W., "Current Understanding of the Inflammatory Process in Cystic Fibrosis", <i>Pediatric Pulmonology</i> , 24:137-142, 1997		
	CB	Rubin, Bruce K., "Emerging Therapies for Cystic Fibrosis Lung Disease", <i>Chest</i> , 115:1120-1126, 1999		
✓	CD	Pasquier et al, "Implication of Neutral Polysaccharides Associated to Alginic Acid Inhibition of Murine Macrophage Response to <i>Pseudomonas Aeruginosa</i> ", <i>FEMS Microbiol Lett</i> , 1997 Feb 15; 147(2):195-201 (Abstract)		
✓	CE	Marty et al, "Influence of Nutrient Media on the Chemical Composition of Exopolysaccharide from Mucoid and Non-Mucoid <i>Pseudomonas Aeruginosa</i> ", <i>FEMS Microbiol Lett</i> , 1992 Nov 1; 77(1-3):35-44 (Abstract)		
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✓	CH	Ramos et al, "Relationship Between Glycosides and Exopolysaccharide Biosynthesis in <i>Lactococcus Lactis</i> ", <i>Appl Environ Microbiol</i> , 2001 Jan; 67(1):33-41 (Abstract)		
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✓	CK	Hill et al, "Organ-Specific Over-Sulfation Of Glycosaminoglycans And Altered Extracellular Matrix In A Mouse Model Of Cystic Fibrosis", <i>Biochem Mol Med</i> , 1997 Oct;62(1):113-22. (Abstract)		
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✓	CN	Beuth et al, "Lectin-Mediated Bacterial Adhesion To Human Tissue", <i>Eur J Clin Microbiol</i> , 1987 Oct;6(5):591-3. (Abstract)		
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✓	CP	Albus et al, "Staphylococcus Aureus Capsular Types And Antibody Response To Lung Infection In Patients With Cystic Fibrosis", <i>J Clin Microbiol</i> , 1988 Dec; 26(12):2505-9. (Abstract)		
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Application Number	09/978,297
Filing Date	10/17/2001
First Named Inventor	Yacobi-Zeevi
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				Application Number	09/978,297
				Filing Date	October 17, 2001
				First Named Inventor	Jacoby-Zeevi
				Group Art Unit	652
				Examiner Name	Richard G. Hutson
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R VT	AB	Kizaki, et al, Expression of Heparanase mRNA in Bovine Placenta During Gestation, Journal of Reproduction and Fertility, 2001, Vol. 121, pp. 573-580

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AB							YES NO	
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
AC		Burgess et al, "The Heparin-Binding (Fibroblast) Growth Factor Family of Proteins", <i>Annu Rev Biochem</i> , 58:575-606, 1989						
AD		Campbell et al, "Heparan Sulfate-Degrading Enzymes Induce Modulation of Smooth Muscle Phenotype", <i>Experimental Cell Research</i> , 20:156-167, 1992						
AE		Gordon-Cardo et al, "Expression of Basic Fibroblast Growth Factor in Normal Human Tissues", <i>Laboratory Investigation</i> , 63:832-840, 1990						
AF		Eisenberg et al, "Lipoprotein Lipase Enhances Binding of Lipoproteins to Heparan Sulfate on Cell Surface and Extracellular Matrix", <i>J. Clin. Invest.</i> , 90:2013-2021, 1992						
AG		Folkman et al, "A Heparin-Binding Angiogenic Protein-Basic Fibroblast Growth Factor-Is Stored Within Basement Membrane", <i>Am. J. Path.</i> , 130(2):393-400, 1988						
AH		Folkman et al, "Angiogenic Factors", <i>Science</i> , 235:442-447, 1987						
AI		Gitay-Goren et al, "The Binding of Vascular Endothelial Growth Factor to its Receptors is Dependent on Cell Surface-Associated Heparin-Like Molecules", <i>J. Biol. Chem.</i> , 267(8):6093-6098, 1992						
AJ		Ishai-Michaeli et al, "Importance of Size and Sulfation of Heparin in Release of Basic Fibroblast Growth Factor from the Vascular Endothelium and Extracellular Matrix", <i>Biochemistry</i> , 31:2080-2088, 1992						
AK		Jackson et al, "Glycosaminoglycans: Molecular Properties, Protein Interactions, and Role in Physiological Processes", <i>Physiological Rev</i> , 71(2):481-539, 1991						
AL		Kjellen et al, "Proteoglycans: Structures and Interactions", <i>Annu Rev Biochem</i> , 60:443-475, 1991						
AM		Liotta et al, "Tumor Invasion and the Extracellular Matrix", <i>Laboratory Investigation</i> , 49(6):636-647, 1983						
AN		Matzner et al, "Degradation of Heparan Sulfate in the Subendothelial Extracellular Matrix by a Readily Released Heparanase from Human Neutrophils", <i>J. Clin Invest</i> , 76:1306-1313						
AO		Mollinedo et al, "Major Co-Localization of the Extracellular-Matrix Degradative Enzymes Heparanase and Gelatinase in Tertiary Granules of Human Neutrophils", <i>Biochem J.</i> , 327:917-923, 1997						
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09/487,716INFORMATION DISCLOSURE CITATION
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Maty AYAL-HERSHKOVITZ et alFiling Date:
January 19, 2000

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BB							YES
							NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BCC	Narindrasorasak et al, "High Affinity Interactions between the Alzheimer's β -Amyloid Precursor Proteins and the Basement Membrane Form of Heparan Sulfate Proteoglycan", <i>J Biolog Chem</i> , 266(20):12878-12883, 1991
BD	Nakajima et al, "Heparanases and Tumor Metastasis", <i>J Cellular Biochem</i> , 36:157-167, 1988
BE	Ornitz et al, "FGF Binding and FGF Receptor Activation by Synthetic Heparan-Derived Di- and Trisaccharides", <i>Science</i> , 268:432-436, 1995
BF	Rapraeger et al, "Requirement of Heparan Sulfate for bFGF-Mediated Fibroblast Growth and Myoblast Differentiation", <i>Science</i> , 252:1705-1709, 1991
BG	Vlodavsky et al, "Lymphoma Cell Mediated Degradation of Sulfated Proteoglycans in the Subendothelial Extracellular Matrix: Relationship to Tumor Cell Metastasis", <i>Cancer Res.</i> , 43: 2704-2711, 1983
BH	Vlodavsky et al, "Involvement of Heparanase in Tumor Metastasis and Angiogenesis", <i>Israel J. Med Sci</i> , 24:464-470, 1988
BI	Zhong-Sheng et al, "Role of Heparan Sulfate Proteoglycans in the Binding and Uptake of Apolipoprotein E-Enriched Remnant Lipoproteins by Cultured Cells", <i>J Biolog Chem</i> , 268(4):10160-10167, 1993
BJ	Vlodavsky et al, "Extracellular Matrix-Bound Growth Factors, Enzymes, and Plasma Proteins", <i>Molecular and Cellular Aspects of Basement Membranes</i> , Academic Press, Inc. 1993, pp 327-342
BK	Wight, TN, "Cell Biology of Arterial Proteoglycans", <i>Arteriosclerosis</i> , 9:1-20, 1989
BL	
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EXAMINER

DATE CONSIDERED

4/29/01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)

Atty. Docket No.

Application No.

910/16

09/260,038

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
(USE SEVERAL SHEETS IF NECESSARY)

Applicant:
Maty AYAL-HERSHKOVITZ et alFiling Date:
March 2, 1999Group Art Unit:
1652

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA							

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES
AB							NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AC	<i>MNR</i>	Burgess et al, "The Heparin-Binding (Fibrob'est) Growth Factor Family of Proteins", <i>Annu Rev Biochem</i> , 58:575-606, 1989
AD		Campbell et al, "Heparan Sulfate-Degrading Enzymes Induce Modulation of Smooth Muscle Phenotype", <i>Experimental Cell Research</i> , 20:156-167, 1992
AE		Gordon-Cardo et al, "Expression of Basic Fibroblast Growth Factor in Normal Human Tissues", <i>Laboratory Investigation</i> , 63:832-840, 1990
AF		Eisenberg et al, "Lipoprotein Lipase Enhances Binding of Lipoproteins to Heparan Sulfate on Cell Surface and Extracellular Matrix", <i>J. Clin. Invest.</i> , 90:2013-2021, 1992
AG		Folkman et al, "A Heparin-Binding Angiogenic Protein-Basic Fibroblast Growth Factor Is Stored Within Basement Membrane", <i>Am. J. Path.</i> , 130(2):393-400, 1988
AH		Folkman et al, "Angiogenic Factors", <i>Science</i> , 235:442-447, 1987
AI		Gitay-Goren et al, "The Binding of Vascular Endothelial Growth Factor to its Receptors is Dependent on Cell Surface-Associated Heparin-Like Molecules", <i>J. Biol. Chem.</i> , 267(8):6093-6098, 1992
AJ		Ishai-Michaeli et al, "Importance of Size and Sulfation of Heparin in Release of Basic Fibroblast Growth Factor from the Vascular Endothelium and Extracellular Matrix", <i>Biochemistry</i> , 31:2080-2088, 1992
AK		Jackson et al, "Glycosaminoglycans: Molecular Properties, Protein Interactions, and Role in Physiological Processes", <i>Physiological Rev</i> , 71(2):481-539, 1991
AL		Kjellen et al, "Proteoglycans: Structures and Interactions", <i>Annu Rev Biochem</i> , 60:443-475, 1991
AM		Liotta et al, "Tumor Invasion and the Extracellular Matrix", <i>Laboratory Investigation</i> , 49(6):636-647, 1983
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AO	<i>MNR</i>	Mollinedo et al, "Major Co-Localization of the Extracellular-Matrix Degrading Enzymes Heparanase and Gelatinase in Tertiary Granules of Human Neutrophils", <i>Biochem J.</i> , 327:917-923, 1997

EXAMINER

MNR

DATE CONSIDERED

11/20/00

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)			Atty. Docket No. 910/16		Application No. 09/260,038		
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)			Applicant: Maty AYAL-HERSHKOVITZ et al				
			Filing Date: March 2, 1999		Group Art Unit: 1652		
U.S. PATENT DOCUMENTS							
	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
BA							
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION
BB							YES NO
OTHER ART (Including Author, Title, Date, Pertinent Pages, E c.)							
BCC		Narindrasorasak et al, "High Affinity Interactions between the Alzheimer's β -Amyloid Precursor Proteins and the Basement Membrane Form of Heparan Sulfate Proteoglycan", <i>J Biol Chem</i> , 266(20):12878-12883, 1991					
BD		Nakajima et al, "Heparanases and Tumor Metastasis", <i>J Cellular Biochem</i> , 30:157-167, 1988					
BE		Ornitz et al, "FGF Binding and FGF Receptor Activation by Synthetic Heparin-Derived Di- and Trisaccharides", <i>Science</i> , 268:432-436, 1995					
BF		Rapraeger et al, "Requirement of Heparan Sulfate for bFGF-Mediated Fibroblast Growth and Myoblast Differentiation", <i>Science</i> , 252:1705-1709, 1991					
BG		Vlodasky et al, "Lymphoma Cell Mediated Degradation of Sulfated Proteoglycans in the Subendothelial Extracellular Matrix: Relationship to Tumor Cell Metastasis", <i>Cancer Res</i> , 43: 2704-2711, 1983					
BH		Vlodavsky et al, "Involvement of Heparanase in Tumor Metastasis and Angiogenesis", <i>Israel J. Med Sci</i> , 24:464-470, 1988					
BI		Zhong-Sheng et al, "Role of Heparan Sulfate Proteoglycans in the Binding and Uptake of Apolipoprotein E-Enriched Remnant Lipoproteins by Cultured Cells", <i>J Biol Chem</i> , 268(4):10160-10167, 1993					
BJ		Vlodavsky et al, "Extracellular Matrix-Bound Growth Factors, Enzymes, and Plasma Proteins", <i>Molecular and Cellular Aspects of Basement Membranes</i> , Academic Press, Inc. 1993, pp 327-342					
BK		Wight, TN, "Cell Biology of Arterial Proteoglycans", <i>Arteriosclerosis</i> , 9:1-21, 1989					
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1449 (Modified)

Atty. Docket No.

Application No.
09/160,037INFORMATION DISCLOSURE STATEMENT
IN AN APPLICATION
(USE SEVERAL SHEETS IF NECESSARY)Applicant:
Oron YACOBY-ZEEVI et alFiling Date:
March 2, 1999Group Art Unit:
1623JUN 13 2006
PATENT & TRADEMARK OFFICE

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLAS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AB							YES
							NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AC		Murry et al, "The Extracellular Matrix", found in "Biochemistry", Chap. 57, pp 667-685
AD		Selvan et al, "Heparan Sulfate in Immune Responses", <i>Ann. NY Acad. Sci.</i> , 717: 127-139, 1996
AE		Wight, TN, "Cell Biology of Arterial Protoglycans", <i>Arteriosclerosis</i> , 9: 1-20, 1989
AF		Vlodavsky et al, "Expression of Heparanase by Platelets and Circulating Cells of the Immune System: Possible Involvement in Diapedesis and Extravasation", <i>Invasion Metastasis</i> , 12:112-127, 1992
AG		Nakajima et al, "Heparanases and Tumor Metastasis", <i>J. Cell Biochem.</i> , 36(2): 157-167, 1988
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AI		Vlodavsky et al, "Extracellular Sequestration and Release of Fibroblast Growth Factor: A Regulatory Mechanism?", <i>Trends Biochem. Sci.</i> , 16: 268-271, 1991
		Vlodavsky et al, "Extracellular Matrix-Bound Growth Factors, Enzymes, and Plasma Proteins", <i>Cell. Molec. Aspects</i> , 1993, Academic Press, Inc. Pp 327-343
AK		Thunberg et al, "The Molecular Size of the Antithrombin-Binding Sequence in Heparin", <i>FEBS Lett.</i> , 117(1): 203-206, 1980
AL		Prockop, DJ, "Marrow Stromal Cells as Stem Cells for Nonhematopoietic Tissues", <i>Science</i> , 276: 71-74, 1997 Krivit et al, "Microglia: The Effector cell for reconstitution of the Central Nervous System Following Bone Marrow Transplantation for Lysosomal and Peroxisomal Storage Diseases", <i>Cell Transplant</i> , 4(4): 385-392, 1995 (Abstract)
AM		Lazarus et al, "Ex Vivo Expansion and Subsequent Infusion of Human Bone Marrow-Derived Stromal Pregenitor Cells (Mesenchymal Progenitor cells): Implications for Therapeutic Use", <i>Bone Marrow Transplantation</i> , 16: 557-564, 1995
AN		Robey et al, "Biochemical Characterization of Marrow Stromal Fibroblasts", <i>6th Int'l. Conf. On Molec. Biol. And Pathology of Matrix, Session IV</i> ,
AO		

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DATE CONSIDERED

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1449 (Modified)

Atty. Docket No.

Application No.
09/160,037INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
(USE SEVERAL SHEETS IF NECESSARY)Applicant:
Oron YACOBY-ZEEVI et alFiling Date:
March 2, 1999Group Art Unit:
1643

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
BA							

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
BB							YES
							NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BC	Pomahac et al, "Tissue Engineering of Skin", <i>Crit Rev Oral Biol Med</i> , 9(3): 313-344, 1998 (abstract)
BD	Benathan et al, "Living Epidermal and Dermal Substitutes for Treatment of Severely Burned Patients", <i>Rev Med Suisse Romande</i> , 118(2): 149-153, 1998 (Abstract- art in French)
BE	Wang et al, Basic Fibroblast Growth Factor Enhances Bone-Graft Incorporation: Dose and Time Dependence in Rats", <i>J. Orthop Res</i> , 14(2): 316-23, 1996 (abstract)
BF	Duffy et al, "Maximizing Flap Survival in a Prefabrication Model Using Exogenous and Endogenous bFGF: A New Approach", <i>Microsurgery</i> , 17(4): 176-179, 1996 (abstract)
EG	Garner WL, "Epidermal Regulation of Dermal Fibroblast Activity", <i>Plast Reconstr Surg</i> , 102(1): 135-139, 1998 (abstract)
EH	Raghunath et al, Cultured Epithelial Autografts: Diving from Surgery into Matrix Biology", <i>Pediatr Surg Int</i> , 12(7): 478-483, 1997 (abstract)
BI	Myers et al, "Transplantation of Keratinocytes in the Treatment of Wounds", <i>Am J Surg</i> , 170(1): 75-83, 1995 (abstract)
CD	Kawaja et al, "Employment of Fibroblasts for Gene Transfer: Applications for Grafting into the Central Nervous System", <i>Genet Eng (NY)</i> , 13: 205-220, 1991 (abstract)
EK	Maillard et al, Pre-Treatment with Elastase Improves the Efficiency of Percutaneous Adenovirus-Mediated Gene Transfer to the Arterial Media", <i>Gene Therapy</i> , 5: 1023-1030, 1998
EL	Wang, JS, "Basic Fibroblast Growth Factor for Stimulation of Bone Formation in Osteoinductive or Conductive Implants", <i>Acta Orthop Scand Suppl</i> , 269: 1-33, 1006 (abstract)
BM	Wang, JS, "Basic Fibroblast Growth Factor Infused at Different Times During Bone Graft Incorporation. Titanium Chamber Study in Rats", <i>Acta Orthop Scand</i> , 67(3): 229-236, 1996 (abstract)
BN	Inui et al, "Local Application of Basic Fibroblast Growth Factor Minipellet Induces the Healing of Segmental Bony Defects in Rabbits",
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EXAMINER

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FORMATION DISCLOSURE CITATION
IN AN APPLICATION
(USE SEVERAL SHEETS IF NECESSARY)

Applicant:
Oron YACOBY-ZEEVI et al

Filing Date:
March 2, 1999

Group Art Unit:
1643

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLAS:	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	NO
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CD		Tabata et al, "Bone Regeneration by Basic Fibroblast Growth Factor Complex: d with Biodegradable Hydrogels", <i>Biomaterials</i> , 19(7-9): 807-815, 1998 (abstract)
CE		Aspnerberg et al, " Stimulates Bone Formation. Bone Induction Studied in Rats ", <i>Acta Orthop Scand</i> , 60(4): 473-476, 1989 (abstract)
CF		Aspnerberg et al, "Dose-Dependent Stimulation of Bone Induction by Basic Fibroblast Growth Factor in Rats", <i>Acta Orthop Scand</i> , 62(5): 481-484, 1991 (abstract)
CG		Matoba et al, "Evaluation Of Omental Implantation for Perforated Gastric Ulcer Therapy: Findings in a Rat Model", <i>J Gastroenterol</i> , 31(6): 777-784, 1996 (abstract)
CH		Chleboun et al, "The Development and Enhancement of the Collateral Circulation in an Animal Model of Lower Limb Ischaemia", <i>Aust NZ Surg</i> , 64(3): 202-207, 1994 (abstract)
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CJ		Lessey et al, "Paracrine Signaling in the Endometrium: Integrins and the Establishment of Uterine Receptivity", <i>J Reprod Immunol</i> , 39(1-2): 105-116, 1998 (abstract)
CK		Burrows et al, "Trophoblast Migration During Human Placental Implantation" <i>Hum Reprod Update</i> , 2(4): 307-321, 1996
CL		Bischof et al, "The Regulation of Endometrial and Trophoblastic Metalloproteases During Blastocyst Implantation", <i>Contracept Fertil Sex</i> , (art in French) 22(1): 48-51, 1994 (abstract)
CM		Smith et al, "Expression of Heparan Sulfate Proteoglycan (perlecan) in the Mouse Blastocyst is Regulated During Normal and Delayed Implantation", <i>Dev Biol</i> , 184(1): 38-47, 1997 (abstract)
CN		Abrahamsohn et al, "Implantation and Deciduation in Rodents", <i>J Exp Zool</i> , 266(6): 603-628, 1993 (abstract)
CO		Goshen et al, "Purification and Characterization of Placental Heparanase and its Expression by Cultured Cytotrophoblasts", <i>Mol. Hum. Repro.</i> , 2(9): 679-684, 1996
CP		

EXAMINER

DATE CONSIDERED

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449 (Modified)

Atty. Docket No.

Application No.
09/250,037INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
(USE SEVERAL SHEETS IF NECESSARY)Applicant:
Oron YACOBY-ZEEVI et alFiling Date:
March 2, 1999Group Art Unit:
1643

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLAS:	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	NO
DB								

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

		Yoshida, S., "Effects of Basic Fibroblast Growth Factor on the Development of Mouse Preimplantation Embryos", <i>Nippon Sanka Fujinka Gaikai Zasshi</i> , 48(3): 170-176, 1996 (abstract)
DE		Watson et al, "A Growth Factor Phenotype Map for Ovine Preimplantation Development", <i>Biol Reprod</i> , 50(4): 725-733, 1994 (abstract)
DF		Carlone et al, "Embryonic Modulation of Basic Fibroblast Growth Factor in the Rat Uterus", <i>Biol Reprod</i> , 49(4): 653-665, 1993 (abstract)
DG		Wordinger et al, "The Immunolocalization of Basic Fibroblast Growth Factor in the Mouse Uterus During the Initial Stages of Embryo Implantation", <i>Growth Factors</i> , 11(3): 171-186, 1994 (abstract)
DH		Schultz et al, "Growth Factors in Preimplantation Mammalian Embryos", <i>Oxford Reprod Biol</i> , 15: 43-81, 1993 (abstract)
DI		Freeman et al, "Human Platelet Heparanase: Purification, characterization and Catalytic Activity", <i>Biochem J</i> , 330: 1341-1350, 1998
DL		Esko et al, "Tumor Formation Dependent on Proteoglycans Biosynthesis", <i>Science</i> , 241(4869): 1092-1096, 1988 (abstract)
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EXAMINER	DATE CONSIDERED
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(Initialized)

Atty. Docket No.
910/12Application No.
09/186,200INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
(USE SEVERAL SHEETS IF NECESSARY)APPLICANT
Tuvia PERETZ et al

Filing Date

Group Art Unit

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA							

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES
AB							NO

OTHER ART (Including Author, Title, Date, Pertinent Pages. Etc.)

AC	Wight et al, "The Role of Proteoglycans in Cell Adhesion, Migration and Proliferation", <i>Curr. Opin. Cell Biol.</i> , 4:793-801, 1992	20437
AD	Jackson et al, "Glycosaminoglycans: Molecular Properties, Protein Interactions and Role in Physiological Processes", <i>Physiol. Rev.</i> , 71:481-539, 1991	20437
AE	Wight et al, "Cell Biology Of Arterial Proteoglycans", <i>Arteriosclerosis</i> , 9:1-20, 1989	20437
AF	Kjellen et al, "Proteoglycans: Structures and Interactions", <i>Annu. Rev. Biochem.</i> , 60: 443-475, 1991	20437
AG	Ruoslahti et al, "Proteoglycans as Modulators of Growth Factor Activities", <i>Cell</i> , 64: 867-869, 1991	20437
AH	Vlodavsky et al, "Extracellular Matrix-Bound Growth Factors, Enzymes and Plasma Proteins" In <i>Basement Membranes: Cellular and Molecular Aspects</i> (eds. Rohrbach and Tirrell), Academic Press, Inc., Orlando, Fla., 327-343, 1993	20437
AI	Vlodavsky et al, "Expression of Heparanase by Platelets and Circulating Cells of the Immune System: Possible Involvement in Diapedesis and Extravasation", <i>Invasion & Metastasis</i> , 12: 112-127, 1992	20437
AJ	Vlodavsky et al, "Inhibition of Tumor Metastasis by Heparanase Inhibiting Species of Heparin", <i>Invasion & Metastasis</i> , 14: 290-302, 1995	20437
AK	Nakajima et al, "Heparanase and Tumor Metastasis", <i>J. Cell Biochem.</i> , 36: 157-167, 1988	20437
AL	Liotta et al, "Tumor Invasion and the Extracellular Matrix", <i>Lab. Invest.</i> , 49: 639-649, 1983	20437
AM	Vlodavsky et al, "Lymphoma Cell Mediated Degradation of Sulfated Proteoglycans in the Subendothelial Extracellular Matrix", <i>Cancer Res.</i> , 43: 2704-2711, 1983	20437
AN	Vlodavsky et al, "Involvement of Heparanase in Tumor Metastasis and Angiogenesis", <i>Int. J. Med.</i> , 24: 464-470, 1988	20437

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)		Atty. Docket No. 910/12	Application No. 09/186,200
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Tuvia PERETZ et al	
		Filing Date	Group Art Unit

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
BA							

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
BB						YES	NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BC	Parish et al, "Evidence that Sulfated Polysaccharides Inhibit Tumor Metastasis by Blocking Tumor Cell-Derived Heparanase", <i>Int. J. Cancer</i> , 40: 511-517, 1987
BD	Vlodavsky et al, "Morphological Appearance, Growth Behavior and Migratory Activity of Human Tumor Cells Maintained on Extracellular Matrix vs. Plastic", <i>Cell</i> , 19: 607-616, 1980
BE	Vlodavsky et al, "Extracellular Sequestration and Release of Fibroblast Growth Factor: A Regulatory Mechanism?", <i>Trends Biochem. Sci.</i> , 16: 268-271, 1991
BF	Campbell et al, "Heparan Sulfate-Degrading Enzymes Induce Modulation of Smooth Muscle Phenotype", <i>Exp. Cell Res.</i> , 200: 156-167, 1992
BG	Lider et al, "Suppression of Experimental Autoimmune Diseases and Prolongation of Allograft Survival by Treatment of Animals with Heparinoid Inhibitors of T Lymphocyte Heparanase", <i>J. Clin. Invest.</i> , 83: 752-756, 1989
BH	Thunberg et al, The Molecular Size of the Antithrombin-Binding Sequence in Heparan", <i>FEBS Lett.</i> , 117: 203-206, 1980
BI	Goldberg et al, "An Improved Method for Determining Proteoglycans synthesized by Chondrocytes in Culture", <i>Connective Tissue Res.</i> , 24: 265-275, 1990
BJ	Hudson, PJ, "Recombinant Antibody Fragment", <i>Curr. Opin. Biotech.</i> , 4: 395-400, 1993
BK	Schoepe et al, "Neutralization of Hemolytic and Mouse Lethal Activities of <i>C. Perfringens</i> Alpha-Toxin Need Simultaneous Blockage of Two Epitopes by Monoclonal Antibodies", <i>Microbiol. Pathogenesis</i> , 23: 1-10, 1997
BL	Chiba et al, "Generation of Neutralizing Antibody to the Reverse Transcriptase of Human Immunodeficiency Virus Type 1 by Immunizing of Mice with an Infectious Vaccinia Virus Recombinant", <i>J. Immunological Methods</i> , 207: 53-60, 1997
BM	Wong, JF, "Monoclonal Antibodies: Therapeutic Applications Grow in Promise and Number", <i>Genetic Engineering News</i> , July, 1998, pp 23, 49

EXAMINER

DATE CONSIDERED

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Form PTO-1449 (Modified)		Atty. Docket No. 910/12	Application No. 09/186,200
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Tuvia PERETZ et al	
		Filing Date	Group Art Unit

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES NO
CH							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CI	Sherman-Gold, R., "Monoclonal Antibodies: The Evolution from '80s Magic bullets to Mature, Mainstream Applications as Clinical Therapeutics", <i>Genetic Engineering News</i> , August, 1997, pp 4, 35
CJ	Danheiser, SL, "Rituxin Leads Line Of Hopeful Mab Therapies, yet FDA still has Bulk Manufacture Concerns", <i>Genetic Engineering News</i> , October, 1997, pp 1,6,33,38
CK	Rader et al, A Phage Display Approach for Rapid Antibody Humanization: Designed Combinatorial V Gene Libraries", <i>Proc. Natl. Acad. Sci.</i> , 95: 8910-8915, 1998
CL	Mateo et al, "Humanization of a Mouse Monoclonal Antibody that Blocks the Epidermal Growth Factor Receptor: Recovery Antagonistic Activity", <i>Imunotechnology</i> , 3: 71-81, 1997
CM	
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CO	
CP	

EXAMINER	DATE CONSIDERED

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(Modified) DISCLOSURE CITATION AN APPLICATION (SEVERAL SHEETS IF NECESSARY)		Atty. Docket No 910/10		Application No. 09/140,888	
		Applicant: Oron YACOBY-ZEEVI			
		Filing Date: August 27, 1998		Group Art Unit: 1633	

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA							

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	NO
AB		09009962 A	14/1/97	JP				

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AC		"Handbook of Microbiology", Vol. 1, 1974, pp 239-242, article by Clancy, C.I.
AD		" <i>Pseudomonas</i> : biotransformations, pathogenesis, and evolving biotechnology", Eds. Silver et al. American Society for Microbiology, 1990, Chps 2,3.
AE		Wang et al, "Isolation and Characterization of <i>Pseudomonas Aeruginosa</i> Gene; Inducible by Respiratory Mucus Derived from Cystic Fibrosis Patients", <i>Mol. Microbiol.</i> , 22(5): 1005-1012. 1996 (Abstract)
AF		Moss et al, "Reduced IL-10 Secretion by CD4+ T Lymphocytes Expressing Mutant Cystic Fibrosis Transmembrane Conductance Regulator (CFTR)", <i>Clin. Exp. Immunol.</i> , 106(2):374-388, 1996 (Abstract)
AG		Davies et al, "Regulation of the Alginate Biosynthesis Gene <i>algC</i> in <i>Pseudomonas Aeruginosa</i> During Biofilm Development in Continuous Culture", <i>Appl. Environ. Microbiol.</i> , 61(3): 860-867, 1995 (Abstract)
AH		Azghani et al, "A Beta-linked Mannan Inhibits Adherence of <i>Pseudomonas Aeruginosa</i> to Human Lung Epithelial Cells", <i>Glycobiology</i> , 5(1): 39-44, 1995, (Abstract)
AI		Ofek et al, "Bacterial Adhesion to Cells and Tissues", Chapman & Hall, New York, 1994, pp 114-118, 148-153, 418-423.
AJ		Davies et al, "The Involvement of Cell-to-Cell Signals in the Development of a Bacterial Biofilm", <i>Science</i> , 280: 295-298, 1998.
AK		Ghani et al, "Ceftazidime, Gentamicin, and Rifampicin, in Combination, Kill Biofilms of Mucoid <i>Pseudomonas Aeruginosa</i> ", <i>Can. J. Microbiol.</i> , 43(11): 999-1004, 1997 (Abstract)
AL		Stickler et al, "An Assessment of the Ability of a Silver-Releasing Device to Prevent Bacterial Contamination of Urethral Catheter Drainage Systems", <i>British J. Urology</i> , 73: 579-588, 1996
AM		Potera, C., "Bacteria in Biofilms Exchange Developmental Signals", <i>ASM News</i> , 64(6): 321-322
AN		Gabriel et al, "In Vitro Adherence of <i>Pseudomonas Aeruginosa</i> to Four Intraocular Lenses", <i>J. Cataract Refract. Surg.</i> 24:124-129, 1998.
AO		
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EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)	Atty. Docket No. 910/10	Application No. 09/140,888
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)	Applicant: Oron YACOBY-ZEEVI	
	Filing Date: August 27, 1998	Group Art Unit: 1633

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
BA							

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	YES	NO
C	06197760	7/19/94	JP					

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BD	Pier, G.B., "Rationale for Development of Immunotherapies that Target Mucoid <i>Pseudomonas Aeruginosa</i> Infection in Cystic Fibrosis Patients", <i>Behring Inst Mitt</i> , 98:350-360, 997 (Abstract)
BE	Goldberg et al, "Biologic Activities of Antibodies to the Neutral-Polysaccharide Component of the <i>Pseudomonas Aeruginosa</i> lipopolysaccharide are Blocked by O Side Chains and Mucoid Exopolysaccharide (Alginate)", <i>Infect Immun</i> , 63(1):21-26 (Abstract)
BF	Meluleni et al, "Mucoid <i>Pseudomonas Aeruginosa</i> Growing in a Biofilm in vitro are Killed by Opsonic Antibodies to the Mucoid Exopolysaccharide Capsule but not by Antibodies Produced During Chronic Lung Infection in Cystic Fibrosis Patients", <i>J. Immun</i> , 155(4):2029-2038, 1995 (Abstract)
BG	Philippon et al, "Virulence Factors (aerobactin and mucoid phenotype) in <i>Klebsiella Pneumoniae</i> and <i>Escherichia coli</i> Blood Culture Isolates", <i>FEMS Microbiol Lett</i> , 130(1): 51-57, 1995 (Abstract)
BH	Pier et al, "How Mutant CFTR May Contribute to <i>Pseudomonas Aeruginosa</i> Infection in Cystic Fibrosis", <i>Am J Respir Crit Care Med</i> , 154(4): S175-S182, 1996 (Abstract)
BI	Pier et al, "Cystic Fibrosis Transmembrane Conductance Regulator is an Epithelial Cell Receptor for Clearance of <i>Pseudomonas Aeruginosa</i> from the Lung", <i>Proc Natl Acad Sci USA</i> 94(22): 12088-93, 1997 (Abstract)
BJ	Boucher et al, "Mucoid <i>Pseudomonas Aeruginosa</i> in Cystic Fibrosis: Characterization of Muc Mutations in Clinical Isolates and Analysis of Clearance in a Mouse Model of Respiratory Infection", (Abstract) no further information given. <i>Infect Immun</i> . 1997 Sep., 65(9): 3838-3846.
BK	Boucher et al, "Two Distinct Loci Affecting Conversion to Mucoidy <i>Pseudomonas Aeruginosa</i> in Cystic Fibrosis Encode Homologs of the Serine Protease HtrA", <i>J. Bacteriol</i> , 178(2):511-523, 1996 (Abstract)
BL	Yu et al, "Microbial Pathogenesis in Cystic Fibrosis: Pulmonary Clearance of Mucoid <i>Pseudomonas Aeruginosa</i> and Inflammation in a Mouse Model of Repeated Respiratory Challenge", <i>Infection and Immunity</i> , 66(1): 280-288, 1998
BM	Van Heeckeren et al, "Excessive Inflammatory Response of Cystic Fibrosis Mice to Bronchopulmonary Infection with <i>Pseudomonas Aeruginosa</i> ", <i>J. Clin Invest</i> , 100(11): 2810-2815, 1997
BN	

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 605: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)		Atty. Docket No. 910/10	Application No. 09,140,888
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)		Applicant: Oron YACOBY-ZEEVI	
		Filing Date: August 27, 1998	Group Art Unit: 16:3
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
CA	Mrsny et al, "Addition of a Bacterial Alginate Lyase to Purulent CF Sputum in vitro can Result in the Disruption of Alginate and Modification of Sputum Viscoelasticity", <i>Pul Pharmacol</i> , 7(6): 357-366, 1994 (Abstract)		
CB	Wiils et al, "Short-Term Recombinant Human Dnase in Bronchiectasis. Effect on Clinical State and in vitro Sputum Transportability", (Abstract) no further information.		
CC	Cai et al, "Comparison of Sputum Processing Techniques in Cystic Fibrosis", <i>Pediatr Pulmonol</i> , 22(6): 402-407, 1996 (Abstract)		
CD	Randall et al, "Distribution of DNA and Alginate in Purulent Cystic Fibrosis Sputum: Implications to Pulmonary Targeting Strategies", <i>J Drug Therap</i> , 4(4): 233-243, 1996		
DE	Hatch et al, "Alginate Lyase Promotes Diffusion of Aminoglycosides Through the Extracellular polysaccharide of Mucoid <i>Pseudomonas Aeruginosa</i> ", <i>Antimicrob Agents Chemother</i> , 42(4): 974-977, 1998 (Abstract)		
CF	Speert et al, "Modulation of Macrophage Function for Defense of the Lung against <i>Pseudomonas Aeruginosa</i> ", <i>Behring Inst Mitt</i> , 98: 274-282, 1997 (Abstract)		
CG	Ying et al, "Alginate, the slime Exopolysaccharide of <i>Pseudomonas Aeruginosa</i> , Binds Human Leukocyte Elastase, Retards Inhibition by Alpha 1-proteinase Inhibitor, and Accelerates Inhibition by Secretory Leukoprotease Inhibitor", <i>Am J Cell Mol Biol</i> , 15(2): 283-291, 1996 (Abstract)		
CH	Johansen et al, Chronic <i>Pseudomonas Aeruginosa</i> Pneumonia. A New Prophylactic Principle", <i>Behring Inst Mitt</i> , 90: 269-273, 1997 (Abstract)		
CI	Pina et al, "The Role of Fluoroquinolones in the Promotion of Alginate Synthesis and Antibiotic Resistance in <i>Pseudomonas Aeruginosa</i> ", <i>Curr Microbiol</i> , 35(2): 103-108, 1997 (Abstract)		
CJ	Spencer, RC, "Invasive Streptococci", <i>Eur J Clin Microbiol Infect Dis</i> , 14 Suppl :S26-S32, 1995 (Abstract)		
DK	Mengistu et al, "Continuous Culture Studies on the Synthesis of Capsular Polysaccharide by <i>Klebsiella Pneumoniae</i> K1", <i>J Appl Bacteriol</i> , 76(5): 424-430, 1994 (Abstract)		
CL	Hsueh et al, "Invasive <i>Streptococci pneumoniae</i> Infection Associated with Rapidly Fatal Outcome in Taiwan", <i>J Formos Med Assoc</i> , 95(5):364-371, 1996 (Abstract)		
CM	Moses et al, "Relative Contributions of Hyaluronic Capsule and M Protein to Virulence in a Mucoid Strain of the Group A Streptococcus", <i>Infect Immun</i> , 65(1):64-71, 1997 (Abstract)		
CN	Scott et al, Visualization of an Extracellular Mucoid Layer of <i>Treponema Dentico</i> a ATCC 35405 and Surface Sugar Lectin Analysis of Some <i>Treponema</i> Species", <i>Oral Microbiol Immunol</i> , 12(2): 121-125, 1997 (Abstract)		
CO	Nilsson et al, "The Role of Staphylococcal Polysaccharide Microcapsule Expression in Septicemia and Septic Arthritis", <i>Infect Immun</i> , 65(10): 4216-21, 1997 (Abstract)		
CP	Wessels et al, "Effects on Virulence of Mutations in a Locus Essential for Hyaluronic Acid Capsule Expression in Group A Streptococci", <i>Infect Immun</i> , 62(2): 433-441, 1994 (Abstract)		
EXAMINER		DATE CONSIDERED	
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

49 (Modified)

Atty. Docket No.
910/8Application No.
09/113, 68CITATION DISCLOSURE CITATION
IN AN APPLICATION
(USE SEVERAL SHEETS IF NECESSARY)NOV 04 1998
PATENT & TRADEMARK OFFICE
U.S. GOVERNMENTApplicant:
Hanna BEN ARTZI et alFiling Date:
July 10, 1998Group A
1652
Unit
1357

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA							

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AB						YES
						NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AC	<i>JAH</i>	Wight et al, "The Role of Proteoglycans in Cell Adhesion, Migration and Proliferation", <i>Cell Biology</i> , 4: 93-801, 1992
AD		Jackson et al, "Glycosaminoglycans: Molecular Properties, Protein Interactions, and Role in Physiological processes", <i>Physiological Review</i> , 71(2):481-539, 1991
AE		Wight, T.N., "Cell Biology of Arterial Proteoglycans", <i>Arteriosclerosis</i> , 9(1):1-20, 1989
AF		Kjellen et al, "Proteoglycans: Structures and Interactions", <i>Annu. Rev. Biochem.</i> , 60: 443-475, 1991
AG		Ruoslahti et al, "Proteoglycans as Modulators of Growth Factor Activities", <i>Cell</i> , 64: 867-869, 1991
AH		Vlodavsky et al, "Extracellular Matrix-Bound Growth Factors, Enzymes, and Plasma Proteins", <i>In Basement Membranes: Cellular and Molecular Aspects</i> , (eds. Rohrbach & Timpl), p 327-343, Academic Press Inc., Orlando, Fla., 1993.
AI		Vlodavsky et al, "Expression of Heparanase by Platelets and Circulating Cells of the Immune System: Possible Involvement in Diapedesis and Extravasation", <i>Invasion Metastasis</i> , 12:112-127, 1992
AJ		Vlodavsky et al, "Inhibition of Tumor Metastasis by Heparanase Inhibiting Species of Heparin", <i>Invasion Metastasis</i> , 14:290-302, 1994-95.
		Nakajima et al, "Heparanase and Tumor Metastasis", <i>J. Cellular Biochem.</i> , 36:157-167, 1988.
AL		Liotta et al, "Tumor Invasion and the Extracellular Matrix", <i>Laboratory Investigation</i> , 49(6):636-647, 1983.
AM		Vlodavsky et al, "Lymphoma Cell-Mediated Degradation of Sulfated Proteoglycan in the Subendothelial Extracellular Matrix: Relationship to Tumor Cell Metastasis", <i>Cancer Research</i> , 43: 2704-2711, 1983
AN		Vlodavsky et al, "Involvement of Heparanase in Tumor Metastasis and Angiogenesis" <i>Isr. Med. Sci.</i> , 24: 464-470, 1983
AO		Parish et al, "Evidence That Sulphated Polysaccharides Inhibit Tumor Metastasis by Blocking Tumour-Cell-Derived Heparanases", <i>Int. J. Cancer</i> , 40: 511-518, 1987.
AP	<i>JAH</i>	Vlodavsky et al, "Morphological Appearance, Growth Behavior and Migratory Activity of Human Tumor Cells Maintained on Extracellular Matrix Versus Plastic", <i>Cell</i> , 19: 607-616 1980

EXAMINER	<i>Jon Phile</i>	DATE CONSIDERED	<i>30 Sep 79</i>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

Form PTO-1449 (Modified)		Atty. Docket No. 910/8	Application No. 09/113,168
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)		Applicant: Hanna BEN ARTZI et al	
		Filing Date: July 10, 1998	Group A Unit: 1652/657

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
BA							

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
						YES	NO
BB							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BC	Vlodavsky et al, "Extracellular Sequestration and Release of Fibroblast Growth Factor: A Regulatory Mechanism?", <i>Trends Biochem. Sci.</i> , 16: 268-271, 1991
BD	Campell et al, "Heparin Sulfate-Degrading Enzymes Induce Modulation of Smooth Muscle Phenotype", <i>Exp. Cell Res.</i> , 200: 156-167, 1992
BE	Lider et al, "Suppression of Experimental Autoimmune Diseases and Prolongation of Allograft Survival by Treatment of Animals with Low Doses of Heparin", <i>J. Clin. Invest.</i> , 83: 752-756, 1999
BF	Thunberg et al, "The Molecular Size of the Antithrombin-Binding Sequence in Heparin", <i>FEBS Letters</i> , 117(1): 203-206, 1980
BG	Sudhalter et al, "Importance of Size, Sulfation and Anticoagulant Activity in the Potentiation of Acidic Fibroblast Growth Factor by Heparin", <i>J. Biol. Chem.</i> , 254(12): 6892-6897, 1999
BH	Ishai-Michaeli et al, "Importance of Size and Sulfation of Heparin in Release of Basic Fibroblast Growth Factor from the Vascular Endothelium and Extracellular Matrix", <i>Biochemistry</i> , 31: 2080-2088, 1992
BI	Inoue et al, "Selective N-Desulfation of Heparin with Dimethyl Sulfoxide Containing Water or Methanol", <i>Carbohydrate Research</i> , 46: 67-95, 1976
J	Nagasaki et al, "Solvolytic Desulfation of Glycosaminoglycan Sulfates With Dimethyl Sulfoxide Containing Water or Methanol", <i>Carbohydrate Research</i> , 58: 47-55, 1977
BK	Matia Bar-New et al, "Inhibition of Heparanase-Mediated Degradation of Extracellular Matrix Heparin Sulfate by Non-Anticoagulant Heparin Species", <i>Blood</i> , 70(2): 551-557, 1987
BL	Gospodarowicz et al, "Stimulation of Corneal Endothelial Cell Proliferation <i>in vitro</i> by Fibroblast and Epidermal Growth Factors", <i>Exp. Eye Res.</i> , 25: 75-89, 1977
BM	Haimovits-Friedman et al, "Activation of Platelet Heparitinase by Tumor Cell-Derived Factors", <i>Blood</i> , 78: 789-796, 1991.
BN	Vlodavsky et al, "Extracellular Matrix-Resident Growth Factors and Enzymes: Possible Involvement in Tumor Metastasis and Angiogenesis", <i>Cancer and Metastasis Rev.</i> , 9: 203-226, 1990

EXAMINER	<i>Jen P. Weber</i>	DATE CONSIDERED	<i>30 Sep 99</i>
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Form PTO-1449 (Modified)			Atty. Docket No. 910/8		Application No. 09/113,158		
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)			Applicant: Hanna BEN ARTZI et al				
			Filing Date: July 10, 1998		Group Art Jnlt: 1652 / 657		
U.S. PATENT DOCUMENTS							
	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CA							
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
CB							YES NO
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
CC	<i>SH</i>	Regan et al, "Mimicry of Biological Macromolecules by Polyaromatic Anionic Compounds", <i>J. Bioactive and Compatible Polymers</i> , 8: 317-337, 1993					
CD		Benezra et al, "Antiproliferative Activity to Vascular Smooth Muscle Cells and Receptor Binding of Heparin-Mimicking Polyaromatic Anionic Compounds", <i>Arteriosclerosis and Thrombosis</i> , 14(12): 1992-1999, 1993					
CE		Katz et al, "Antiproliferative Activity to Glomerular Mesangial Cells and Receptor Binding of a Heparin-Mimicking Polyaromatic Anionic Compound", <i>J. Amer. Soc. Nephrology</i> , 1638-1697, 1997					
CF		Miao et al, "Modulation of Fibroblast Growth Factor-2 Receptor Binding, Dimerization, Signaling, and Angiogenic Activity by a Synthetic Heparin-Mimicking Polyaromatic Compound", <i>J. Clin. Invest.</i> , 99(7): 1565-1575, 1997					
CG		Benezra et al, "Reversal of Fibroblast Growth Factor-mediated Autocrine Cell Transformation by Aromatic Anionic Compounds", <i>Cancer Research</i> , 52:5656-5662, 1992.					
CH		Irimura et al, "Chemically Modified Heparins as Inhibitors of Heparan Sulfate Specific Endo- β -glucuronidase (Heparanase) of Metastatic melanoma Cells", <i>Biochemistry</i> , 25: 5322-5328, 1986					
CI		Coombe et al, "Analysis of the Inhibition of Tumour Metastasis by Sulphated Polysaccharides", <i>Int. J. Cancer</i> , 39: 82-88, 1987.					
CJ		Ornitz et al, "Heparin is Required for Cell-Free Binding of Basic Fibroblast Growth Factor to a Soluble Receptor and for Mitogenesis in Whole Cells", <i>Molecular and Cellular Biology</i> , 12: 240-247, 1992					
CK		Yayon et al, "Cell Surface, Heparin-like Molecules are Required for Binding of Basic Fibroblast Growth Factor to its High Affinity Receptor", <i>Cell</i> , 64: 841-848, 1991.					
CL		Aviezer et al, "Differential Structural Requirements of Heparin and Heparan Sulfate Proteoglycans That Promote Binding of Basic Fibroblast Growth Factor to its Receptor", <i>J. Biol. Chem.</i> , 269(1):114-121, 1994.					
CM	<i>SH</i>	Bartlett et al, "Comparative Analysis of the Ability of Leucocytes, Endothelial Cells, and Platelets to Degrade the Subendothelial Basement Membrane: Evidence for Cytokine Dependence and Detection of a Novel Sulfatase", <i>Immunology and Cell Biol.</i> , 73: 113-124, 1995.					
CN							
EXAMINER	<i>Jon A. Weber</i>			DATE CONSIDERED	<i>30 Sep 99</i>		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO-1449 (Modified)			Atty. Docket No. 910/8	Applicant No. 09/113,158			
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)			Applicant: Hanna BEN ARTZI et al				
			Filing Date: July 10, 1998	Group Art Unit: 1652-1651			
U.S. PATENT DOCUMENTS							
	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
DA							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
DB		Nakajima et al, "A Solid-Phase Substrate of Heparanase: Its Application to Assay of Human Melanoma for Heparan Sulfate Degradative Activity", <i>Analytical Biochemistry</i> , 157: 162-171, 1986.					
DC		Oosta et al, "Purification and Properties of Human Platelet Heparanase", <i>J. Biol. Chem.</i> , 257(19): 11249-11255, 1982.					
DD		Sewell et al, "Human Mononuclear Cells Contain an Endoglycosidase Specific for Heparan Sulfate Glycosaminoglycan Demonstrable with the Use of a Specific Solid-Phase Metabolically Radiolabelled Substrate", <i>Biochem J.</i> , 264: 777-783, 1989.					
DE		Freeman et al, "A Rapid Quantitative Assay for the Detection of Mammalian Heparanase Activity", <i>Biochem J.</i> , 325: 229-237, 1997.					
DF		Mullings et al, "New Reducing Sugar Assay for the Study of Cellulases", <i>Enzyme Microb. Technol.</i> , 6:491-496, 1984.					
DG		Taylor et al, "A colorimetric Method for the Quantitation of Uronic Acids and a Specific Assay for Galacturonic Acid", <i>Analytical Biochemistry</i> , 201: 190-196, 1992.					
DH		Linhardt, R.J., "Glyc Electrophoresis of Oligosaccharides", <i>Methods in Enzymology</i> , 230: 265-280, 1994.					
DI		Basu et al, "Analysis of Glycosphingolipids by Fluorophore-Assisted Carbohydrate Electrophoresis Using Ceramide Glycanase from <i>Mercenaria mercenaria</i> ", <i>Analytical Biochemistry</i> , 222: 271-274, 1994.					
DJ		Jackson, P., "The Use of Polyacrylamide-gel Electrophoresis for the High-Resolution of Separation of Reducing Saccharides Labelled with the Fluorophore 8-aminonaphthalene-1,3,6-trisulphonic Acid", <i>Biochem J.</i> , 270: 705-713, 1990.					
DK		Coquet et al, "Applications of a Post-column Fluorogenic Reaction in Liquid Chromatography for the Determination of Glucose and Fructose in Biological Matrices", <i>Analytica Chemica Acta</i> , 252: 173-179, 1991.					
DL		DeVouge et al, "Immunoselection of GRP94/Endoplasmin From a KNRK Cell-Specific λgt11 Library Using Antibodies Directed Against a Putative Heparanase Amino-Terminal Peptide", <i>Int. J. Cancer</i> , 56: 286-294, 1994					
DM		Zsolnai et al, "Directional Immobilization of Heparin onto the Nonporous Surface of Polystyrene Microplates", <i>Biotechniques</i> , 23(3): 382-385, 1997.					
DN		Bellott et al, "Closing the Loop in Combinatorial Chemistry", <i>European Pharmaceutical Contractor</i> , Aug., 1997.					
DO		Goldberg et al, "An Improved Method for Determining Proteoglycans Synthesized by Chondrocytes in Culture", <i>Live Tissue Research</i> , 24: 265-275, 1990.					
EXAMINER <i>Jen P. Weber</i>			DATE CONSIDERED <i>30 Sep 97</i>				
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO-1449 (Modified)			Atty. Docket No. 910/4		Application No. 09/046,475			
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)			Applicant: Oron Yacoby ZEEVI					
			Filing Date: March 25, 1998		Group Art Unit: 1652			
U.S. PATENT DOCUMENTS								
	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME		CLASS	SUB-CLASS	FILING DATE
AA								
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AC								
AD						AUG 10 1998		
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
AE							YES NO	
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
AF	RP	Allen, E.D., "Opportunities for the Use Aerosolized α_1 - Antitrypsin for the Treatment of Cystic Fibrosis", <i>Chest</i> , 110: 256S - 260S, 1996						
AG	RP	Konstan et al, "Current Understanding of the Inflammatory Process in Cystic Fibrosis", <i>Pediatric Pulmonology</i> , 24:137-142, 1997						
AH	RP	Dasgupta et al, "Reduction in Viscoelasticity in Cystic Fibrosis Sputum <i>In Vitro</i> Using Combined Treatment with Nacystelyn and rhDNase", <i>Pediatric Pulmonology</i> , 22:161-166, 1996						
AI	RP	Crystal, R.G., Gene Therapy Strategies for Pulmonary Disease", <i>Am. J. Medicine</i> , 92(supp 64): 6A-44S - 6A-525 (June 1992)						
AJ	RP	Lieberman, J., "The Appropriate Use of Mucolytic Agents, <i>Am. J. Medicine</i> , 49(1): 1-4, 1970						
AK	RP	Boat et al, "Biochemistry of Airway Mucus Secretions", <i>Fed Proc</i> , 39:13: 3067-3074, 1980 (Abstract)						
AL	RP	Mohapatra et al, "Alteration of Sulfation of Glycoconjugates, but not Sulfate Transport and Intracellular Inorganic Sulfate Content in Cystic Fibrosis Airway Epithelial Cells", <i>Pediatr Res</i> , 38(1): 42-48, 1995 (Abstract)						
AM	RP	Boat et al, "Increased Sulfation of Glycoconjugates by Cultured Nasal Epithelial Cells from Patients with Cystic Fibrosis", <i>J. Clin Invest.</i> , 84(1):68-72, 1989 (Abstract)						
AN	RP	Boat et al, "Epithelial Cell Dysfunction in Cystic Fibrosis: Implications for Airways Disease", <i>Acta Paediatr Scand Suppl</i> , 363:25-29, 1989						
AO	RP	Welch et al, "Complex Saccharide Metabolism in Cystic Fibrosis Fibroblasts", <i>Pediat Res</i> , 9:698-702, 1975						
AP	RP	Schwartz et al "CpG Motifs in Bacterial DNA Cause Inflammation in the Lower Respiratory Tract", <i>J. Clin. Invest.</i> , 100(1): 68-73, 1997 (Abstract)						
EXAMINER	Rebecca Prouty			DATE CONSIDERED 7-21-99				
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

Form PTO-1449 (Modified)

Atty. Docket No.
910/4Application No.
09/046,475INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
(USE SEVERAL SHEETS IF NECESSARY)AUG 07 1998
CITY

PATENT & TRADEMARK OFFICE

Applicant:
Oron Yacoby ZEEVIFiling Date:
March 25, 1998Group Art Unit:
1652

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

RECEIVED

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
BC						AUG 10 1998 YES NO SERIAL NO. 09/046,475

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BD	RP	Hill et al, "Organ-Specific Over-Sulfation of Glycosaminoglycans and Altered Extracellular Matrix in a Mouse Model of Cystic Fibrosis", <i>Biochem Mol Med</i> , 62(1): 113-122, 1997 (Abstract)
BE	RP	"Harper's Biochemistry", 24th Ed. Pp 660-685
BF	RP	Chase et al, "Respiratory Mucous Secretions in Patients with Cystic Fibrosis: Relationship Between Levels of Highly Sulfated Mucin Component and Severity of the Disease", <i>Clinica Chimica Acta</i> , 132: 143-155, 1983
BG	RP	Schwab et al, "Increased Adherence of <i>Staphylococcus Aures</i> From Cystic Fibrosis Lungs to Airway Epithelial Cells", <i>Am Rev Respir</i> , 148(2): 365-369, 1993 (Abstract)
BH	RP	Barghouthi et al, "Nonopsonic Phagocytosis of <i>Pseudomonas Aeruginosa</i> Requires Facilitated Transport of D-Glucose by Macrophages", <i>J. Immunol.</i> , 154(7): 3420-3428, 1995 (Abstract)
BI	RP	Moser et al, "Chronic <i>Pseudomonas Aeruginosa</i> Lung Infection is more Severe in Th2 Responding BALB/c Mice compared to Th1 Responding C3H/HeN Mice", <i>APMIS</i> , 105(11): 838-842, 1997 (Abstract)
BJ	RP	Cowley et al, "Mucociliary Clearance in Cystic Fibrosis Knockout Mice Infected with <i>Pseudomonas Aeruginosa</i> ", <i>Eur Respir</i> , 10(10): 2312-2318, 1997 (Abstract)
BK	RP	Zahm et al, "Early Alterations in Airway Mucociliary Clearance and Inflammation of the <i>Lamina Propria</i> in CF Mice", <i>Am J Physiol</i> , 272(3 Pt 1): C853-C859, 1997 (Abstract)
BL	RP	Pier et al, "Cystic Fibrosis Transmembrane Conductance Regulator is an Epithelial Cell Receptor for Clearance of <i>Pseudomonas Aeruginosa</i> From the Lung", <i>Proc Natl Acad Sci USA</i> , 94(22): 12088-12093, 1997
BM	RP	Selvan et al, "Heparan Sulfate in Immune Responses", <i>An. NY Acad. Sci.</i> , 797: 127-139, 1996
BN	RP	Vlodavsky et al, "Expression of Heparanase by Platelets and Circulating Cells of the Immune System: Possible Involvement in Diapedesis and Extravasation", <i>Invasion Metastasis</i> , 12:112-127, 1992
BO	RP	Nakajima et al, "Heparanases and Tumor Metastasis", <i>J. Cell Biochem.</i> , 36(2): 157-167, 1988

EXAMINER

Rebecca Prouty

DATE CONSIDERED

7-21-99

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Atty. Docket No.
910/4Application No.
09/046,475INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
(USE SEVERAL SHEETS IF NECESSARY)AUG 07 1998
JC17Applicant:
Oron Yacoby ZEEVIFiling Date:
March 25, 1998Group Art Unit:
1652

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CA							

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
CB						YES NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CC	RP	Thompson et al, "Identification of Chondroitin Sulfate E in Human Lung Mast Cells", <i>J. Immunol.</i> , 140(8): 2708-2713, 1988 (Abstract)
CD	RP	Giuffre et al, "Monocyte Adhesion to Activated Aortic Endothelium: Role of L-Selectin and Heparan Sulfate Proteoglycans", <i>J Cell Biol</i> , 136(4): 945-956, 1997 (Abstract)
CE	RP	Shimada et al, "Involvement of Cell Surface Heparin Sulfate in the Binding of Lipoprotein Lipase to Cultured Bovine Endothelial Cells", <i>J Clinical Invest</i> , 68(4): 995-1002, 1981 (Abstract)
CF	RP	Hayward et al, "Chondroitin Sulfate in Sputum from Patients with Cystic Fibrosis and Chronic Bronchitis", <i>Am J Resp Cell & Mol Biol</i> , 5(4): 315-320, 1991
CG	RP	Hayward et al, "Heparinase III Exerts Endothelial and Cardioprotective Effects in Feline Myocardial Ischemia-Reperfusion Injury", <i>J. Pharm Exp Ther</i> , 283(3): 1032-1038, 1997 (Abstract)
CH	RP	Yamaguchi et al, "Neutrophil Elastase Inhibitor Reduces Neutrophil Chemoattractant Production After Ischemia-Reperfusion in Rat Liver", <i>Gastroenterology</i> , 112(2): 551-560, 1997 (Abstract)
CI	RP	Matgolies et al, "Identification of a Major Heparin-Precipitable Protein in Human Serum and its Relationship to Cystic Fibrosis", <i>Pediatr Res</i> , 16(3): 181-186, 1982 (Abstract)
CJ	RP	Leong et al, "Different Classes of Proteoglycans Contribute to the Attachment of <i>Borrelia Burgdorferi</i> to Cultured Endothelial and Brain Cells", <i>Infect Immun</i> , 66(3): 994-999, 1998 (Abstract)
CK	RP	Asagoe et al, "Effect of Heparin on Infection of Cells by Equine Arteritis Virus", <i>J Vet Med Sci</i> , 59(8): 727-728, 1997 (Abstract)
CL	RP	Krusat et al, "Heparin-Dependent Attachment of Respiratory Syncytial Virus (RSV) to Host Cells", <i>Arch Virol</i> , 142(6): 1247-1254, 1997 (Abstract)
CM	RP	Alvarez-Dominguez et al, "Host Cell Heparan Sulfate Proteoglycans Mediate Attachment and Entry of <i>Listeria Monocytogenes</i> , and the Listerial Surface Protein ActA is Involved in Heparan Sulfate Receptor Recognition", <i>Infection & Immunity</i> , 65(1): 78-88, 1997, (aBSTRACT)
CN	RP	Hagiwara et al, "Inhibitory Effect of Heparin on Red Blood Cell Invasion by <i>Theileria Sergenti</i> Merozoites", <i>Int J Parasitol</i> , 27(5): 535-539 (Abstract) 1997
CO		
CP		

EXAMINER

Rebecca Party

DATE CONSIDERED 7-21-99

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)			Atty. Docket No. 910/4	Application No. 09/046,475			
INFORMATION DISCLOSURE CITATION <i>(IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)</i>			Applicant: Oron Yacoby ZEEVI				
AUG 07 1998			Filing Date: March 25, 1998	Group Art Unit: 1652			
U.S. PATENT DOCUMENTS							
	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
DA							
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
DB							YES NO
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
DC	RP	Shakibaei et al, "Dual Interaction of the Malaria Circumsporozoite Protein with the Low Density Lipoprotein Receptor-Related Protein (LRP) and Heparan Sulfate Proteoglycans", <i>J Exp Med</i> , 184(5): 1699-1711, 1996 (Abstract)					
DD	RP	Inaba et al, "Effect of Heparinon Infection of Cells by Porcine Reproductive and Respiratory Syndrome Virus", <i>Am J Vet Res</i> , 58(5):488-491, 1997 (Abstract)					
DE	RP	Chen et al, "Dengue Virus Infectivity Depends on Envelope Protein Bin to Target Cell Heparan Sulfate", <i>Nature Medicine</i> , 3(8): 866-871, 1997					
DF	RP	Gantt et al, "Cell Adhesion to a Motif Shared by the Malaria Circumsporozoite Protein and Thrombospondin is Mediated by its Glycosminoglycan-Binding Region and not by CSVTG", <i>J Biol Chem</i> , 272(31): 19205-19213, 1997 (Abstract)					
DG	RP	Robert et al, "Chondroitin-4-Sulphaate (Proeoglyceaaaan), a receptor for Plasmodium <i>Falciparum</i> -Infected Erythrocyte Adherence on Brain Microvascular Endothelial Cells", <i>Res Immunol</i> , 146(6): 383-93, 1995. (Abstract)					
DH	RP	Herrera et al, "Mediation of <i>Trypanosoma Cruzi</i> Invasion by Heparan Sulfate Receptors on Host Cells and Penetrin Counter-Receptors on the Trypanosomes", <i>Mol & Biochem Parasit</i> , 65: 73-83, 1994					
DI							
DJ							
DK							
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CN							
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EXAMINER	Rebecca Porthy			DATE CONSIDERED 7-21-99			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.							

Form PTO-1449 (Modified)

Atty. Docket No.
910/1Application No.
08/922,170 *13*INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
(USE SEVERAL SHEETS IF NECESSARY)Applicant:
Iris PECKER et alFiling Date:
September 2, 1997RECEIVED
Group A (USPTO)
9/28/98
1652
GROUP 1
1998

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	1000 SUB CLASS	FILING DATE
AA	RP	5,362,641	Nov 94	Fuks et al	435	205	
AB	RP	5,571,506	Nov 96	Regan et al	424	78,17	
AC							

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							YES
AD	RP	WO 9504518	Jul 94	PCT	—	—	
AE							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AF	RP	Goshen et al. "Purification and Characterization of Placental Heparanase and its Expression by Cultured Cytotrophoblasts", <i>Molecular Human Reproduction</i> , 2(9): 679-684, 1996
AG	RP	Bar-Ner et al. "Inhibition of Heparanase-Mediated Degradation of Extracellular Matrix Heparan Sulphate by Non-anticoagulant Heparin Species", <i>Blood</i> , 70(2): 551-557, 1987
AH	RP	Savitsky et al. "Ataxia-Telangiectasia: Structural Diversity of Untranslated Sequences Suggests Complex Post-Transcriptional Regulation of ATM Gene Expression", <i>Nucleic Acids Research</i> , 25(9): 1678-1684 (1997)
AI	RP	Haimovitz-Friedman et al. "Activation of Platelet Heparanase by Tumor Cell Derived Factors", <i>Blood</i> , 78: 789-796, 1991
AJ	RP	Gospodarowicz et al. "Stimulation of Corneal Endothelial Cell Proliferation <i>in vitro</i> by Fibroblast and Epidermal Growth Factors", <i>Exp. Eye Res.</i> , 25: 75-89, 1977
AK	RP	Ernst et al. "Enzymatic degradation of Glycosaminoglycans", <i>Crit. Rev. In Biochem. & Molec. Biology</i> , 30(5): 387-444, 1995
AL	RP	Zhong-Sheng et al. "Role of Heparan Sulfate Proteoglycans in the Binding and Uptake of Apolipoprotein E-enriched Remnant Lipoproteins by Cultured Cells", <i>J. Biol. Chem.</i> , 268(14): 10160-10167, 1993
AM	RP	R. Ross, "The Pathogenesis of Atherosclerosis: A Perspective for the 1990s", <i>Nature</i> , 362: 801-809, (1993)
AN	RP	1993 Putnak et al. "A Putative Cellular Receptor for Dengue Viruses", <i>Nature Medicine</i> , 3(8): 828-829, 1997
AO	RP	Cordon-Cardo et al. "Expression of Basic Fibroblast Growth Factor in Normal Human Tissues", <i>Laboratory Investigation</i> , 63(6): 832-840, 1990

EXAMINER *Rebecca Party* DATE CONSIDERED 7-24-98

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)			Atty. Docket No. 910/1	Application No. 08/922 170			
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)			Applicant: Iris PECKER et al				
			Filing Date: September 2, 1997	Group No. 1652			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE	
BA							
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
BB						YES	NO
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
BC	RP	Narindrasorasak et al, "High Affinity Interactions between the Alzheimer's β -Amyloid Precursor Proteins and the Basement Membrane Form of Heparan Sulfate Proteoglycan", <i>J. Biol. Chem.</i> , 266(20): 12878-12883, 1991					
BD	RP	Chen et al, "Dengue Virus Infectivity Depends on Envelope Protein Binding to Target Cell Heparan Sulfate", <i>Nature Medicine</i> , 3(8): 866-871, 1997					
BE	RP	Shieh et al, "Cell Surface Receptors for Herpes Simplex Virus are Heparan Sulfate Proteoglycan Proteoglycans", <i>J. Cell Biol.</i> , 116(5): 1273-1281, 1992					
BF	RP	Eisenberg et al, "Lipoprotein Lipase Enhances Binding of Lipoproteins to Heparan Sulfate on Cell Surfaces and Extracellular Matrix", <i>J. Clin. Invest.</i> , 90: 2013-2021, 1992					
BG	RP	Rapraeger et al, "Requirement of Heparan Sulfate for bFGF-Mediated Fibroblast Growth and Myoblast Differentiation", <i>Science</i> , 252: 1705-1708, 1991					
BH	RP	Lider et al, "A Disaccharide that Inhibits Tumor Necrosis Factor α is Formed from the Extracellular Matrix by the Enzyme Heparanase", <i>Proc. Natl. Acad. Sci. USA</i> , 92:5037-5041, 1995					
BI	RP	Lider et al, "Suppression of Experimental Autoimmune Diseases and Prolongation of Allograft Survival by Treatment of Animals with Low Doses of Heparins", <i>J. Clin. Invest.</i> , 83: 752-756, 1989					
BJ	RP	Gitay-Goren et al, "The Binding of Vascular Endothelial Growth Factor to its Receptors is Dependent on Cell Surface-associated Heparin-like Molecules", <i>J. Biol. Chem.</i> , 267(9): 6093-6098, 1992					
BK	RP	Ornitz et al, "FGF Binding and FGF Receptor Activation by Synthetic Heparin Derived Di- and Trisaccharides", <i>Science</i> , 268: 432-436, 1995.					
BL	RP	Spivak-Kroizman et al, "Heparin-Induced Oligomerization of FGF Molecules is Responsible for FGF Receptor Dimerization, Activation, and Cell Proliferation", <i>Cell</i> , 79: 1015-1024, 1994					
BM	RP	Yayon et al, "Cell Surface Heparin-Like Molecules are required for Binding of Basic Fibroblast Growth Factor to its High Affinity Receptor", <i>Cell</i> , 64: 841-848, 1991					
BN							
EXAMINER <u>Rebecca Prouty</u>			DATE CONSIDERED <u>7-21-18</u>				
EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO-1449 (Modified)		Atty. Docket No. 910/1	Appl. No. 08/922,170				
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)		Applicant: Iris PECKER et al					
		Filing Date: September 2, 1997	Group Art Unit: 1652				
U.S. PATENT DOCUMENTS							
	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
CA							
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
CB							YES NO
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
CC	RP	Vlodavsky et al, "Extracellular Matrix-Bound Growth Factors, Enzymes, and Plasminogen Proteins", Basic Membranes: Cellular and Molecular Aspects (eds. Rohrbach & Timpl) pp 327-343, Academic Press, Orlando, Fla., 1993					
CD	RP	Vlodavsky et al, "Extracellular Sequestration and release of Fibroblast Growth Factor: A Regulatory Mechanism?", <i>Trends Biochem. Sci.</i> , 16: 268-271, 1991					
CE	RP	Ishai-Michaeli et al, "Heparanase Activity Expressed by Platelets, Neutrophils, and Lymphoma Cells releases Active Fibroblast Growth Factor from Extracellular Matrix", <i>Cell Regulation</i> , 1: 833-842, 1990					
CF	RP	Ishai-Michaeli et al, "Importance of Size and Sulfation of Heparin in Release of Basic Fibroblast Growth Factor from the Vascular Endothelium and Extracellular Matrix", <i>Biochemistry</i> , 31(7): 2080-2088, 1992					
CG	RP	Folkman et al, "A Heparin-Binding Angiogenic Protein - Basic Fibroblast Growth Factor - is Stored Within Basement Membrane", <i>Am. J. Pathology</i> , 130(2): 393-400, 1988					
CH	RP	Vlodavsky et al, "Endothelial Cell-Derived Basic Fibroblast Growth Factor: Synthesis and Deposition into Subendothelial Extracellular Matrix", <i>Proc. Natl. Acad. Sci. USA</i> , 84: 2292-2296, 1987					
CI	RP	Folkman et al, "Angiogenic Factors", <i>Science</i> , 235: 442-447, 1987					
CJ	RP	Burgess et al, "The Heparin-Binding (Fibroblast) Growth Factor Family of Proteins", <i>Annu. Rev. Biochem.</i> , 58:575-606, 1989					
CK	RP	Vlodavsky et al, "Involvement of the Extracellular Matrix, Heparin Sulfate Proteoglycans, and Heparin Sulfate Degrading Enzymes in Angiogenesis and Metastasis", In: <i>Tumor Angiogenesis</i> , Eds. Lewis et al, Oxford Univ. Press, pp 125-140, 1997					
CL	RP	Parish et al, "Evidence that Sulfated Polysaccharides Inhibit Tumor Metastasis by Blocking Tumor-Cell-Derived Heparanases", <i>Int. J. Cancer</i> , 40: 511-518, 1987					
CM	RP	Bashkin et al, "Basic Fibroblast Growth Factor Binds to Subendothelial Extracellular Matrix and is Released by Heparanase and Heparin-Like Molecules", <i>Biochemistry</i> , 28:1737-1743, 1989					
CN							
EXAMINER	Rebecca Party		DATE CONSIDERED		7-21-98		
EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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Form PTO-1449 (Modified)		Atty. Docket No. 910/1	Application No. 08/2170
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (USE SEVERAL SHEETS IF NECESSARY)		Applicant: Iris PECKER et al	RECEIVED FEB 5 1998 GPO 440-1800 16:2
		Filing Date: September 2, 1997	Group 1800

U.S. PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
DB							YES NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DC	RP	Gospodarowicz et al, "Permissive effect of the ExtraCellular Matrix on Cell Proliferation <i>in vitro</i> ", <i>Proc. Natl. Acad. Sci. USA</i> , 77(7): 4094-4098, 1980
DD	RP	Vlodavsky et al, "Morphological Appearance, Growth Behavior and Migratory Activity of Human Tumor Cells Maintained on ExtraCellular Matrix Versus Plastic", <i>Cell</i> , 19: 607-616, 1980
DE	RP	Vlodavsky et al, "Involvement of Heparanase in Tumor Metastasis and Angiogenesis", <i>Israel J. Med. Sci.</i> , 24: 464-470, 1988
DF	RP	Vlodavsky et al, "Lymphoma Cell-mediated Degradation of Sulfated Proteoglycan in the Subendothelial ExtraCellular Matrix: Relationship to Tumor Cell Metastasis", <i>Cancer Research</i> , 43: 2704-2711, 1983
DG	RP	Liotta et al, "Tumor Invasion and the ExtraCellular Matrix", <i>Lab. Inv.</i> , 49(6): 636-649, 1983
DH	RP	Nicolson, G.L., "Organ Specificity of Tumor Metastasis: Role of Preferential Adhesion, Invasion and growth of Malignant Cells at Specific Secondary Sites", <i>Cancer Met. Rev.</i> , 7: 143-188, 1988
DI	RP	Nakajima et al, "Heparanases and Tumor Metastasis", <i>J. Cell. Biochem.</i> , 36: 157-167, 1988
DJ	RP	Vlodavsky et al, "Inhibition of Tumor Metastasis Inhibiting Species of Heparin", <i>Inv. Metast.</i> , 14: 290-302, 1994
	RP	Vlodavsky et al, "Expression of Heparanases by Platelets and Circulating Cells of the Immune System: Possible Involvement in Diapedesis and Extravasation", <i>Inv. Metast.</i> , 12: 112-127, 1992
	RP	Ruostalhti et al, "Proteoglycans as Modulators of Growth Factor Activities", <i>Cell</i> , 64: 867-869, 1991
	RP	Kjellen et al, "Proteoglycans: Structures and Interactions", <i>Annu. Rev. Biochem.</i> , 50: 443-475, 1991
	RP	Wight, T.N., "Cell Biology of Arterial Proteoglycans", <i>Arteriosclerosis</i> , 9: 1-20, 1989
	RP	Jackson, et al, "Glycosaminoglycans: Molecular Properties, Protein Interactions, and Role in Physiological Processes", <i>Physiological Rev.</i> , 71(2): 481-539, 1991
	RP	Wight et al, "The Role of Proteoglycans in Cell Adhesion, Migration and Proliferation", <i>Curr. Opin. Cell Biol.</i> , 4: 793-801, 1992

EXAMINER	Rebecca Ponty	DATE CONSIDERED	1-21-98
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applic int.

Atty Docket No.
910/5Application No.
09/071,739Applicant:
Iris PECKER et al

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Filing Date:
May 1, 1998

GROUP 1800

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
(USE SEVERAL SHEETS IF NECESSARY)JUL 14 1998
PATENT & TRADEMARK OFFICE

PATENT DOCUMENTS

	EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA							

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AB							NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AC	MD	Wight et al, "The Role of Proteoglycans in Cell Adhesion, migration and Proliferation", <i>Current Opinion in Cell Biology</i> , 1992, 4:793-801
AD	MD	Jackson et al, "Glycosaminoglycans: Molecular Properties, Protein Interactions, and Role in Physiological Processes", <i>Physiological Reviews</i> , 71(2):481-539, 1991
AE	MD	Wight, T.N., "Cell Biology of Arterial Proteoglycans", <i>Arteriosclerosis</i> , 9:1-20, 1989
AF	MD	Kjellen et al, "Proteoglycans: Structures and Interactions", <i>Annu. Rev. Biochem.</i> , 60: 443-475, 1991
AG	MD	Ruoslahti et al, "Proteoglycans as Modulators of Growth Factor Activities", <i>Cell</i> , 64:867-869, 1991
AH	MD	Vlodavsky et al, "Extracellular Matrix-Bound Growth Factors, Enzymes and Plasma Protein", in <i>Basement Membranes: Cellular and Molecular Aspects</i> (eds. Rohrbach et al) pp 327-343, Academic Press Inc., Orlando, Fla.
AI	MD	Vlodavsky et al, "Expression of Heparanases by Platelets and Circulating Cells of the Immune System: Possible Involvement in Diapedesis and Extravasation", <i>Invasion & Metastasis</i> , 12: 112-127, 1992
AJ	MD	Vlodavsky et al, "Inhibition of Tumor Metastasis by Heparanase Inhibiting Species of Heparin", <i>Invasion & Metastasis</i> , 14: 290-302, 1995
AK	MD	Nakajima et al, "Heparanase and Tumor Metastasis", <i>J. Cell. Biochem.</i> , 36: 157-167, 1988
AL	MD	Liotta et al, "Tumor Invasion and the Extracellular Matrix", <i>Lab. Invest.</i> , 49: 636-647, 1983
AM	MD	Vlodavsky et al, "Lymphoma Cell Mediate Degradation of Sulfated Proteoglycans in the Subendothelial Extracellular Matrix: Relationship to Tumor Cell Metastasis", <i>Cancer Res.</i> , 43: 2704-2711, 1983
AN	MD	Parish et al, "Evidence that Sulphated Polysaccharides Inhibit Tumor Metastasis by Blocking Tumor cell-Derived Heparanase", <i>Int. J. Cancer</i> , 40: 511-518, 1987
AO	MD	Vlodavsky et al, "Morphological Appearance, Growth behavior and Migratory Activity of Human Tumor Cells Maintained on Extracellular Matrix vs. Plastic", <i>Cell</i> , 19: 607-616, 1980
AP		

EXAMINER *Dr. D. B.*

DATE CONSIDERED

7/12/99

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)

Atty. Docket No.
910/5Application No.
09/071,739INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
(USE SEVERAL SHEETS IF NECESSARY)Applicant:
MIS PECKER et alFiling Date:
May 1, 1998

Group Art Unit:

U.S. PATENT DOCUMENTS

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JUL 15 1998
GROUP 10

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
						YES
						NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BCC	NO	Gospodarowicz et al, "Permissive Effect of the Extracellular Matrix on Cell Proliferation <i>in-vitro</i> ", <i>Proc. Natl. Acad. Sci. USA</i> , 77:4094-4098, 1980
BD	NO	Burgess et al, "The Heparin-Binding (Fibroblast) Growth Factor Family of Proteins", <i>Annu. Rev. Biochem.</i> , 58: 575-606, 1989
BE	NO	Folkman et al, "Angiogenic Factors", <i>Science</i> , 231: 442-447, 1987
BF	NO	Vlodavsky et al, "Extracellular Sequestration and Release of Fibroblast Growth Factor: a Regulatory Mechanism?", <i>Trends Biochem. Sci.</i> , 16: 832-840, 1991
BG	NO	Ishai-Michaeli et al, "Heparanase Activity Expressed by Platelets, Neutrophils and Lymphoma Cells Releases Active Fibroblast Growth Factor from Extracellular Matrix", <i>Cell Reg.</i> , 1: 833-842, 1990
BH	NO	Campbell et al, "Heparin Sulphate-Degrading Enzymes Induce Modulation of Smooth Muscle Phenotype", <i>Exp. Cell Res.</i> , 200: 156-167 (1992)
BR	NO	Oosta et al, "Purification and Properties of Human Platelet Heparitinase", <i>J. Biol. Chem.</i> , 257: 11,249 - 11,255, 1982
BJ	NO	Hoogewerf et al, "CXC Chemokines Connective Tissue Activating peptide-III and neutrophil Activating peptide -2 are Heparin/Heparan Sulfate-Degrading Enzymes", <i>J. Biol. Chem.</i> , 270: 3268-3277, 1995
BK	NO	Gordon-Cardo et al, "Expression of Basic Fibroblast Growth Factor in Normal Human Tissue", <i>Lab. Invest.</i> , 63(6): 832-840, 1990
BL	NO	Freeman et al, "Human Platelet Heparanase: Purification, Characterization and Catalytic Activity", <i>Biochem. J.</i> , 330: 1341-1350, 1988
BM	NO	Goshen et al, "Purification and Characterization of Placental Heparanase and its Expression by Cultured Cytotrophoblasts", <i>Mol. Human Reprod.</i> , 2: 679-684, 1996
BN	NO	Nakajima et al, "Immunochemical Localization of Heparanase in Mouse and Human Melanomas", <i>Int. J. Cancer</i> , 45: 1088-1095, 1990
BO	NO	Molinendo et al, "Major Colocalization of the Extracellular-Matrix Degradative Enzymes Heparanase and Gelatinase in Tertiary Granules of Human Neutrophils", <i>Biochem. J.</i> , 327: 917-923, 1997

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PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
						YES	NO
H							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CM	MD	De Vouge et al, "Immunoselection of GRP94/Erdoplasmin From a KNRK Cell-Specific λgt11 Library Using Antibodies Directed Against a Putative Heparanase Amino-Terminal Peptide", <i>Int. J. Cancer</i> , 56: 286-294, 1994
CN	MD	Graham et al, "Comparison of the Heparanase Enzymes From Mouse Melanoma Cells, Mouse Macrophages, and Human Platelets", <i>Biochem. And Mol. Biol. Int.</i> , 39(3): 563-571, 1996
CO	MD	Kosir et al, "Human Prostate Carcinoma Cells Produce Extracellular Heparanase", <i>J. Surg. Res.</i> , 67: 98-105, 1997
CP	MD	Kosir et al, Abstract 3378, <i>Cancer Res.</i> , 37: 495 1996
CQ	MD	Ernst et al, "Enzymatic Degradation of Glycosaminoglycans", <i>Crit. Rev. In Biochem. And Mol. Biol.</i> , 30(5): 387-444 1995
	MD	Gospodarowicz et al, "Stimulation of Corneal Endothelial Cell Proliferation <i>in vitro</i> by Fibroblast and Epidermal Growth Factors", <i>Exp. Eye Res.</i> , 25: 15-89, 1977
	MD	Haimovitz-Friedman et al, "Activation of Platelet Heparitinase by Tumor Cell-Derived Factors", <i>Blood</i> , 78: 789-796, 1991
	MD	Yelton et al, "Monoclonal Antibodies: a Powerful New Tool in Biology and Medicine", <i>Annu. Rev. Biochem.</i> , 50: 657-680, 1981
	MD	Friedman et al, "Regulated Expression of Homeobox Genes <i>Msx-1</i> and <i>Msx-2</i> in Mouse Mammary Gland Development Suggests a Role in Hormone Action and Epithelial-Stromal Interactions", <i>Devel. Biol.</i> , 177: 347-355, 1996
	MD	Soule et al, "Isolation and Characterization of a Spontaneously Immortalized Human Breast Epithelial Cell Line, MCF-10 ¹ ", <i>Cancer Res.</i> , 50: 6075-6 1990
	MD	Miller et al, "Xenograft Model of Progressive Human Proliferative Breast Disease", <i>J. Nat. Cancer Inst.</i> , 85: 1725-1732, 1993
	MD	Nakajima et al, Heparan Sulfate Degradation: Relation to Tumor Invasion and Metastatic Properties of Mouse B16 melanoma Sublines", <i>Science</i> , 220: 611-613, 1983
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EXAMINER *Marianne Dibm*

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